Thebookstore is an online portal that helps users exchange, sell and donate books.

The user would be able to logon to the portal using third party credentials like facebook,google etc

A user has 2 set of books at any point of time, those are (for time being) referred to as have\_books and want\_books. Have\_books are the books that user has and want\_books are the books the user is interested to buy/exchange. In some special cases the want\_books set can be null eg. User just want to donate his/her books.

How the process works?

1. User logs on using fb / google etc (register)
2. User provides additional information like mobile no. and communication address
3. User adds the books to have\_books set (books the user has )
4. User adds the books to want\_books set ( books the user wants )

(Here ends the user task)

1. Based on the location of the user, the system identifies with who other users the books can be exchanged.

Eg. Let there be 2 users Akshay and Pradeep who are neighbours to each residing at approx 0.5 km distant to each other. Akshay adds “Angels and Demons” in his has\_books and “The Davinci code” to the want\_books. Pradeep already has “The Davinci code” in his has\_books and “Angels and Demons” in his want\_books. Based on the co-ordinates, the system starts at Akshay’s address and moves away from the point ( as a circle ) until it identifies the match and displays the results. If there is no exact match , then based on the author,content it suggests some other relevant books.

For eg: suggests to exchange for “Java Cathy Siera” instead of “Java Head first”

1. Once the user (say user1) finds that there is a match and they can mutually exchange, the user1 can set a flag of interest. If the other user ( say user2) accepts the request, then a mail will be sent to both with the contact no.s asking them to exchange.
2. Once the physical exchange of books is done. Both the users have to edit their have\_ books and want\_books. Users would do it because they would get unnecessary requests.
3. The portal also contains user reviews of all kinds of books (similar to imdb ).

Novels to read before you die , user rating of each book on a scale of 10

Things that should be thought of:

1. Suggest the portal to a friend via facebook?

(A mail will be sent to user friend saying “ Your friend ‘abc’ has suggested you to go through this portal”)

1. Both android and web application should be in place while launching
2. Animation video that shows the process
3. Users rating each other after physical exchange of the books or after each getting mail to exchange

(Rating can be given based on: does user really have the book? Is it in a good condition? Did user respond quickly? Was the process smooth in collecting the book from him?

Rating encourages the people to keep books in good condition and keep exchange process easy.)

Desired Technical Features

1. Look and feel, easy navigation
2. Google map. The map points to the user location + 0.5 km radius. As the user zooms out, the map shows the available books in the location.
3. Dynamic typing: User can either enter ISBN or partial title string to add books to the sets

Open Technical Issues

1. What technology will be used for the development of application?

Java or python or oracle db or nosql ?

1. How the map thing would be implemented?

Modules

1. Add books
2. Lend books
3. Search
4. Reviews
5. How it works
6. My Profile
7. Peer rating

Points to consider –

1. Authorization (?)
2. Security
3. Cloud – AWS
4. Tech Stack.